## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

## LISTING OF CLAIMS:

- 1. (currently amended): The A composition for forming a transparent film, comprising photocatalytic particles; zirconium ammonium carbonate; a cohydrolysis-polycondensation product of an aluminum alkoxide represented by the formula Al(OR)<sub>3</sub> where R is an organic group and a titanium alkoxide represented by the formula Ti(OR')<sub>4</sub> where R' is an organic group; and water, and having a pH of 7 to 9.
- 2. (original): The composition for forming a transparent film according to claim 1, wherein the composition is heated at 10 to 400°C for curing, thereby forming a transparent film.
- 3. (currently amended): The composition for forming a transparent film according to claim 1-or claim 2, which comprises the photocatalytic particles in an amount of 0.1 mass% to 5 mass%.
- 4. (currently amended): The composition for forming a transparent film according to any one of claim 1 to claim 3 claim 1, which comprises zirconium ammonium carbonate in an amount of 0.1 mass% to 0.75 mass%.

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- 5. (currently amended): The composition for forming a transparent film according to any one of claim 1 to claim 4claim 1, wherein the photocatalytic particles have an average particle size of 0.001 to 0.1 μm as calculated from the BET specific surface area.
- 6. (currently amended): The composition for forming a transparent film according to any one of claim 1 to claim 5 claim 1, wherein the photocatalytic particles comprise at least one species selected from among titanium dioxide particles and titanium dioxide particles comprising phosphorus-containing compound on their surfaces.
- 7. (original): The composition for forming a transparent film according to claim 6, wherein the titanium dioxide particles comprise a brookite-crystal phase.
- 8. (currently amended): The composition for forming a transparent film according to any one of claim 1 to claim 7 claim 1, wherein the composition can be applied, without being repelled, to a substrate exhibiting a contact angle with water of 50° or more.
- 9. (currently amended): The composition for forming a transparent film according to any one of claim 1 to claim 8claim 1, wherein the composition forms a coating film, having a hardness of 2H or more, after application onto a substrate and being allowed to stand at 10°C for 24 hours.

- 10. (currently amended): The composition for forming a transparent film according to any one of claim 1 to claim 9claim 1, which, after undergoing the steps of applying the composition to a substrate having an area of  $400 \text{ cm}^2$  to a coating thickness of 200 nm, placing the substrate in a 5-L bag made of fluororesin, feeding into the bag air containing acetaldehyde at a concentration of 20 ppm by mass, sealing the bag; and irradiating the bag with light from a day white fluorescent lamp such that the intensity of 365 nm UV light is controlled to  $6 \mu \text{W/cm}^2$ , exhibits a percent decomposition of acetaldehyde of 60% or more four hours after the start of irradiation.
- 11. (currently amended): The composition for forming a transparent film according to any one of claim 1 to claim 10 claim 1, wherein, after the following steps: applying the composition to a substrate to a coating thickness of 200 nm and irradiating the coating film from the top thereof with light from a day white fluorescent lamp such that the intensity of 365 nm UV light is controlled to 6  $\mu$ W/cm<sup>2</sup>, the contact angle between the coating film and water is 10° or less, 24 hours after the start of irradiation.
- 12. (currently amended): A composition for forming a transparent film according to any one of claim 1 to claim 11claim 1, wherein, when the thickness of the film is 200 nm, the film has a total light transmittance of at least 95% and a haze of 1% or less.
- 13. (currently amended): The composition for forming a transparent film according to any one of claim 1 to 12claim 1, wherein the composition comprises the cohydrolysis-

polycondensation product of an aluminum alkoxide represented by the formula  $Al(OR)_3$  and a titanium alkoxide represented by the formula  $Ti(OR')_4$  in an amount of 0.1 mass% to 1 mass% as reduced to  $Al_2O_3$  or in an amount of 0.01 mass% to 0.1 mass% as reduced to  $TiO_2$ 

- 14. (currently amended): The composition for forming a transparent film according to any one of claim 1 to 13claim 1, wherein said cohydrolysis-polycondensation product of an aluminum alkoxide represented by the formula Al(OR)<sub>3</sub> and a titanium alkoxide represented by the formula Ti(OR')<sub>4</sub> has a particle size equivalent to or smaller than that of the photocatalytic particles.
- 15. (currently amended): The composition for forming a transparent film according to any one of claim 1 to 14claim 1, wherein a powder obtained by drying said cohydrolysis-polycondensation product of an aluminum alkoxide represented by the formula Al(OR)<sub>3</sub> and a titanium alkoxide represented by the formula Ti(OR')<sub>4</sub> has a specific surface area of 100m<sup>2</sup>/g or more.
- 16. (currently amended): The composition for forming a transparent film according to any one of claim 1 to 15claim 1, further comprising a surface active agent.
- 17. (currently amended): The composition for forming a transparent film according to any one of claim 1 to 16claim 1, wherein the film obtained by coating and curing said composition on a substrate and having a thickness of 200 nm exhibits a yellowing degree of 10

or less, after the film is subjected to an acceleration-exposure test employing a xenon arc lamp for 4,000 hours, and exhibits a contact angle with water of 20° or less, after the irradiation of the film for 24 hours with light from a day white fluorescent lamp such that the intensity of 365 nm UV light is controlled to  $6 \mu \text{W/cm}^2$ .

- 18. (currently amended): A method for producing a composition as recited in any one of claim 1 to 17claim 1 for forming a transparent film, the method comprising a step of adding a β-diketone in an amount of 0.1 mol to 3 mol, an acid in an amount of 0.5 to 2 mol, and water in an amount of 1 to 20 mol to 1 mol of aluminum alkoxide represented by the formula Al(OR)<sub>3</sub> to form a solution; a step of adding a titanium alkoxide represented by the formula Ti(OR')<sub>4</sub> in an amount of 0.01 to 0.5 mol to the solution, while the mixture is heated at 40°C to 70°C, to form a composition comprising the cohydrolysis-polycondensation product of an aluminum alkoxide represented by the formula Al(OR)<sub>3</sub> and a titanium alkoxide represented by the formula Ti(OR')<sub>4</sub>.
- 19. (original): The method as claimed in claim 18, further comprising a step of adding photocatalytic particles to said composition comprising the cohydrolysis-polycondensation product of an aluminum alkoxide represented by the formula Al(OR)<sub>3</sub> and a titanium alkoxide represented by the formula Ti(OR')<sub>4</sub>.
- 20. (original): The method as claimed in claim 19, wherein the composition for forming a transparent film comprises a hydrophilic solvent in an amount of 10 % by mass or less.

- 21. (currently amended): A composition for forming a transparent film, which is produced through a method as recited in claim 17, claim 18 or claim 19.
- 22. (currently amended): A method for forming a transparent film, comprising coating and curing the composition for forming a transparent film as recited in any one of claim 1 to claim 17 and claim 21 on a substrate claim 1.
- 23. (currently amended): A material for an exterior wall of a building, a soundproof wall for a road, a windowpane of a building, a glass material for a showcase, a glass material for a fluorescent lamp, a guardrail, a filter for a deodorizing apparatus, a reactor for water treatment, an interior decoration tile, a water bath, or a shade for a lighting apparatus, to which a composition for forming a transparent film as recited in any one of claims 1 to 17 or in claim 21 claim 1 has been applied.
- 24. (currently amended): An advertising signboard, a transparent soundproof wall for a road, a transparent resin building material for exterior finishing, or a shade for a lighting apparatus, having a hard coating layer formed by applying a composition for forming a transparent film as recited in any one of claim 1 to claim 17 or in claim 21 claim 1.